

CSG/ESG WCC
Operational & OffDuty Risk
Management
(ORM)











Objectives

- NOT here to give the 2 day ORM fundamentals course
- Quick overview of ORM and what CSG/ESG's role is in ensuring its implementation during the FRP
 - Where are we?
 - How did we get here?
 - Where are we going?
 - How do we ensure mission success?



Self-Assessment

- Is it worth it?
- What is different today?
- What can happen to me?
- Do the benefits (mission) outweigh the costs (forces)?
- How can I keep it from effecting the mission or of hurting me --
- What can I learn from this?
- If I see something wrong (hazard/threat/process), who do I tell?



ORM

This brief is

UNCLASSIFIED



References

NWP 5-01

NAVY WARFARE PUBLICATION

NAVY PLANNING NWP 5-01

EDITION JANUARY 2007

DEPARTMENT OF THE NAVY OFFICE OF THE CHIEF OF NAVAL OPERATIONS

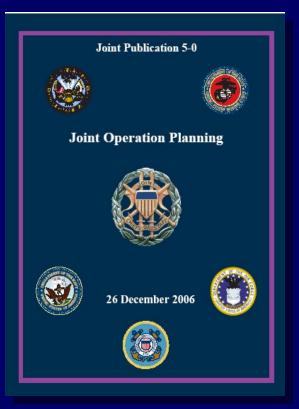
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| URGENT CHANGE/ERRATUM RECORD | | | | | | | | | | |
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| NUMBER | DATE | ENTERED BY | | | | | | | | |
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JAN 2007







References

Commander's Handbook

for an

Effects-Based Approach

to

Joint Operations







Joint Warfighting Center

Joint Concept Development and Experimentation Directorate

Standing Joint Force Headquarters

24 February 2006

TM 5-00.1-03

AUG 2005

COMMANDER NAVY WARFARE DEVELOPMENT COMMAND (NWDC) TACMEMO 5-00.1-03

MULTIPLE-CARRIER STRIKE GROUP (CSG) OPERATIONS PLANNING AND EMPLOYMENT GUIDANCE

DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY TO OPERATIONAL USE TO PROTECT TECHNICAL DATA OR INFORMATION FROM AUTOMATIC DISSOCIATION, OTHER REQUIESTS SHALL BE REFERRED TO HAVY MARRARE DEVELOPMENT COMMAND, 485 CUSHING ROOD, INSTRUCT, 81800H-1000H, 1000H-1000H, 1000H-1000H, 1000H-1

AUGUST 2005

ARMY, MARINE CORPS, NAVY, AIR FORCE



RISK MANAGEMENT

FM 3-100.12 MCRP 5-12.1C NTTP 5-03.5 AFTTP(I) 3-2.34

AIR LAND SEA APPLICATION CENTER FEBRUARY 2001

DIST WELL TON HE ST MC TON.



MULTISERVICE TACTICS, TECHNIQUES, AND PROCEDURES



Bottom Line Up Front

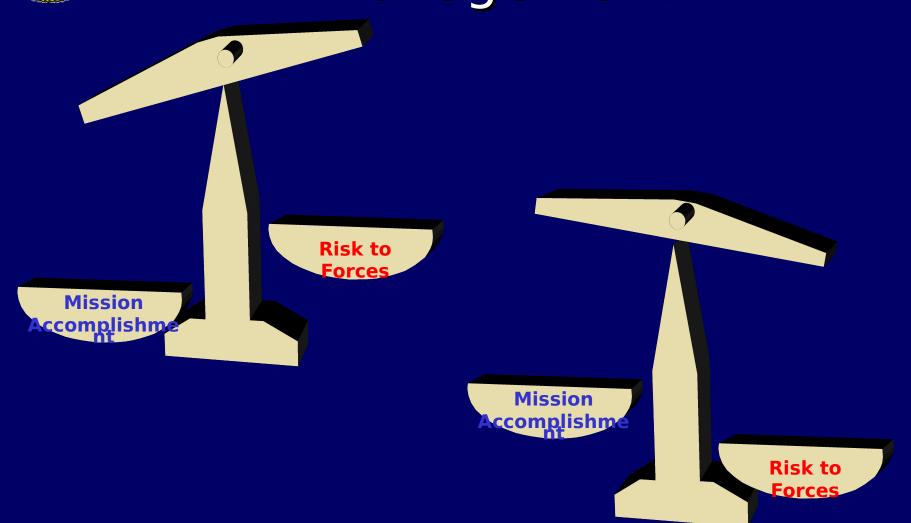
(BLUF)

- Common Language/Terms
- Three Levels of ORM
 - 1. In-depth
 - 2. Deliberate
 - 3. Time Critical
- Four principles of ORM
 - 1. Anticipate and manage risk by planning
 - 2. Make risk decisions at the appropriate level
 - 3. Accept risk when benefits outweigh costs
 - 4. Accept no unnecessary risks
- Five steps of ORM Four steps of Time Critical
 ORM
 - 1. Identify hazards hazards/risks
 - 2. Assess hazards control risks

- 1. Assess situation for
- 2. Balance resources to
- 3. Make risk decisions 3. Communicate risks and



Operational Risk - Management





Big Picture

- VCNO has tasked the Operations Safety Committee (OSC) with revamping ORM in the Navy & implementing a strategy to ensure inculcation into the Navy culture
- Naval Safety Center (NSC) heads up the OSC ORM working group and was designated as the Navy's ORM Model Manager
- OPNAV 3500.39B (30 July 2004) in rewrite
- CSFTL directs "cradle to grave" approach WRT Strike Group ORM training (You will be formally assessed during FRTP)



Risk Management Is

Risk Management:

 Process that assists decision makers in reducing or offsetting risk by systematically identifying, assessing and controlling risk arising from operational factors and making decisions that weigh risks against mission benefits. Goal is to enhance operational capabilities and mission accomplishment, with minimal loss.

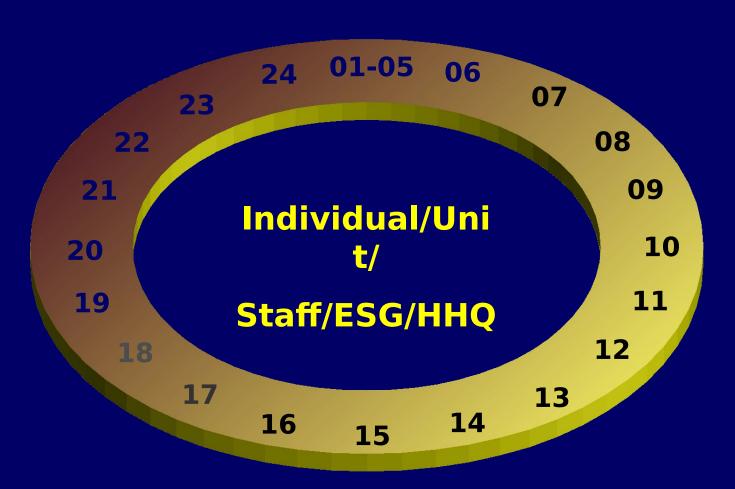
"Discipline for living with the possibility that future events may cause adverse effects"

Risk Management Does Not:

- Replace sound tactical decision making
- Inhibit the Commander's & Leader's flexibility, initiative and accountability
- Remove risk altogether or support a "zero defect" mindset
- Sanction or justify violating the law
- Remove the necessity for rehearsals, tactics, techniques and procedures (TTP)

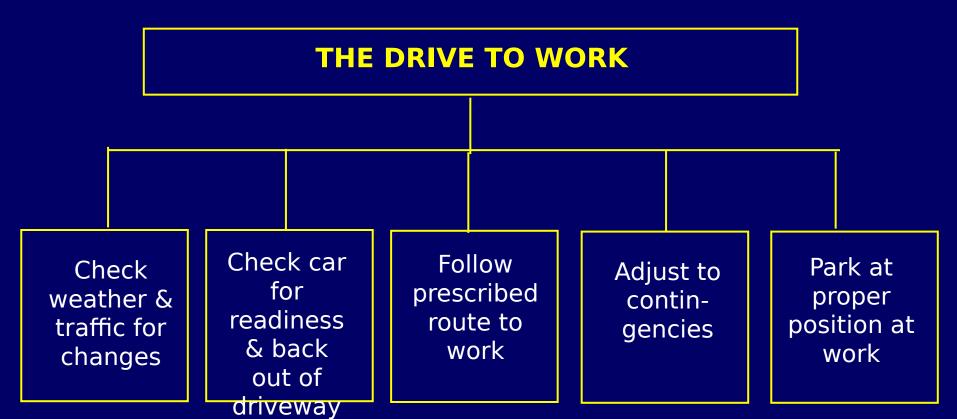


Battle Rhythm





Individual Mission Analysis





What ORM "IS"

- A mindset and/or methodology applicable to any activity
- Accomplishing the mission with acceptable risk
- Planning using a standard process (5 Steps)
- A continuous, flexible process
- Following procedures (controls)
- Watching for change (supervising)
- Working as a team

- Best when applied as a team
- Asking "What's Different"
- Skill and knowledge dependent
- Sharing experience, lessons learned
- Using available tools/resources
- Applied, standardized "common sense"
- "Looking before you leap"
- As in-depth as you have time for



What ORM "IS NOT"

- About avoiding risk
- A safety only program
- Limited to complex-high risk evolutions
- A program -- but a process
- Only for on-duty
- Just for your boss
- Just a planning tool
- Automatic
- Static
- Difficult
- Someone else's job
- A well kept secret

- A fail-safe process
- A bunch of checklists
- Just a bullet in a briefing guide
- "TQL"
- Going away



Risk Definitions

- ORM is a systematic approach to managing risks to acceptable levels to <u>increase</u> <u>mission success</u> with minimal losses. This involves identifying and assessing hazards/threats, controlling risks, supervising and revising as needed.
- Hazard/Threat A condition, source of danger, with the potential to cause personal injury or death, property damage, or <u>mission</u> <u>degradation</u>
- Risk An expression of possible loss in terms of <u>probability</u> and <u>severity</u>



Risk Definitions

Identified Risk

 A risk determined by applying severity and probability analysis to an identified hazard/threat before risk control actions are applied

Residual Risk

 Risk remaining after controls have been identified and selected for hazards/threats that may result in degradation or loss of combat power

Acceptable Risk

 The level of residual risk that the commander agrees to accept for a hazard/threat without further risk control actions

Collective Risk

 Aggregate or accumulative level of residual risk, taking into consideration the cross functional relationships between all hazards/threats and risk control actions



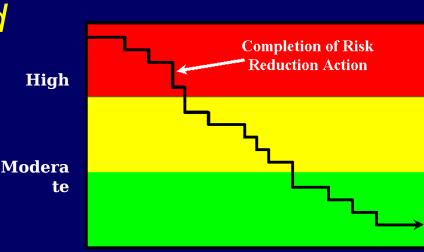
ORM Process Levels

- In-depth formal application of all five steps but with a very thorough hazard identification and risk assessment through research, testing, simulation, statistics, etc
- <u>Deliberate</u> formal application of the complete five-step process where hazards/ threats, risks, controls, and supervision are documented
- <u>Time Critical</u> application of the principles and functional processes during execution where time precludes a formal approach

Risk Management Concepts

- Accept no unnecessary risk
- Make risk decisions at the appropriate level
- Accept risk when benefits outweigh the cost (opportunity)
- Anticipate and manage risk by planning
 - Risks can be mitigated and prevented (Need to have a plan to do so)
- If managed, risks should decline over time

(As mitigation events/controls are accomplished successfully)





Types of Risk

Risk to Mission:

- Focus during Mission Analysis phase
- Reference USFF Force Operating Posture guidance
- Output is prioritized list of hazards/threats that could potentially impact mission accomplishment (COA development).

Risk to Forces:

- CONOPS development, execution and sustainment once risk assessment to mission complete.
- What impact do the new hazards/threats have on our forces above and beyond the baseline?



Examples

Risk to

- Completions
 Architecture (24/7)
 Naval, Joint,
 Combined)
- Risk of miscalculation by Adversary
- ROE
- Concurrent tasking (force capacity/capability vs demand)
- Mis-ID LSF (aggressive overreaction)

Risk to

- Communications (loss of/functional flow)
- Force Protection/Force Posture
- Fratricide/Complace ncy
- Drowning (MOB/VBSS)
- Collision in high density area (Strait)



In-Depth/Deliberate ORM Process





Identify Hazards/Threats

Operational

Determine Specified & implied tasks

Break down into small steps

Pull from lessons learned

List Hazards

List hazards for each step

Use "What if..." tool

Focus on "What's different today?" Determine Hazard Root Causes

Target root causes vice symptoms

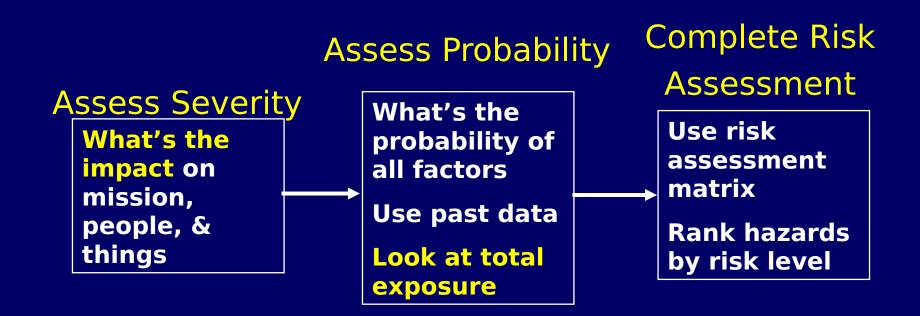
Keep asking "Why?" until answered

Involve Operators / Subject Matter Experts

| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re-assess | Residual | Supervision |
|---------------------------------|--------|-----|---------------------|-----------|----------|-------------|
| | | | | | | |
| | | | | | | |
| Grounding/Flooding/ | | | | | | |
| Navigation error | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Blue/White Collision | | | | | | |
| | | | | | | |
| Non-compliant, non- | | | | | | |
| squawking low slow flyer | | | | | | |
| nye. | | | | | | |
| | | | | | | |
| Tide/current/waves | | | | | | |
| Fog/Reduced | | | | | | |
| visibility/Inclement weather | | | | | | |
| | | | | | | |
| Unknown submarine | | | | | | |
| IVO PIM/Vital Area | | | | | | |
| | | | | | | |
| Terrorist attack | | _ | | | | |
| Inattention/ | | | | | | |
| complacency | | | | | | |



Assess Hazards





Risk Assessment Matrix

Risk Assessment Code

1 = Critical

2 = Serious

3 = Moderate

4 = Minor

5 =

Negligible

| | Risk Management Matrix | PR | ОВА | BILI | ΤΥ | | | |
|-----|---------------------------------|-------------|-------------------|--------------|-----------|--|--|--|
| | Mätrix DPNAVINST 3500.39B | A Likely | B Probable | May Unlikely | | | | |
| ΤY | I Death, Loss of Asset | 1 | 1 | 2 | 3 | | | |
| 2 | II Severe Injury, Damage | 1 | 2 | 3 | 4 | | | |
| V E | III Minor Injury, Damage | 2 | 3 | 4 | 5 | | | |
| SE | IV Minimal Threat | 3 | 4 | 5 | 5 | | | |
| 1- | Critical 2-Seriou | ıs 3-Mod | erate 4-M | linor 5-Ne | egligible | | | |



Severity and Probability

SEVERITY

Category I - The hazard may cause death, loss of facility/asset, or mission failure.

<u>Category II</u> - The hazard may cause **severe** injury, illness, property damage, or **serious mission degradation**.

Category III - The hazard may cause minor injury, illness, property damage, or minor mission degradation.

<u>Category IV</u> - The hazard presents a **minimal** threat to personnel safety or health,

PROBABILITY

Sub-Category A - Likely to occur immediately or within a short period of time. Expected to occur frequently to an individual item or person or continuously to a fleet, inventory or group

Sub-Category B - Probably will occur in time. Expected to occur several times to an individual item or person or frequently to a fleet, inventory or group.

<u>Sub-Category C</u> - May occur in time. Can reasonably be expected to occur some time to an individual item or person or several times to a fleet, inventory or group.



Risk Assessment Code Matrix

| <u>Category</u> | <u>Definition</u> |
|---------------------|--|
| Catastrophic (I) | Loss of ability to accomplish the mission or mission failure. Unacceptable collateral damage (CD) |
| Critical (II) | Significant degraded mission capability, unit readiness, or personal damage. Significant CD |
| Marginal (III) | Degraded mission capability or unit readiness. Minor damage to equipment/systems. Injury of personnel |
| Negligible (IV) | Little or no adverse impact on mission capability |

| <u>Category</u> | <u>Definition</u> |
|-----------------|---|
| Frequent | Occurs very often. Expected to occur several times during a specific mission or operation |
| Likely | Occurs several times - expected to occur during a specific mission or operation |
| Occasional | Occurs over a period of time. May occur during a specific mission or operation, but not often |
| Seldom | Occurs as an isolated incident. Remotely possible, but not expected to occur during a specific mission or operation |
| Unlikely | Occurrence not impossible, but may assume will not occur during a specific mission or operation |

| | | Freq | Likel | Occs | Seld m | Unlk |
|------------------|-------------|------|--------|--------|-----------|--------|
| | | A | у В | n C | D | y E |
| Catastrop hic | Ι | Е | Е | Н | Н | M |
| Critical | I | Е | Н | Н | М | L |
| Marginal | I I I | Ή | M | M | L | L |
| Negligibl e | I V | M | L | L | L | L |

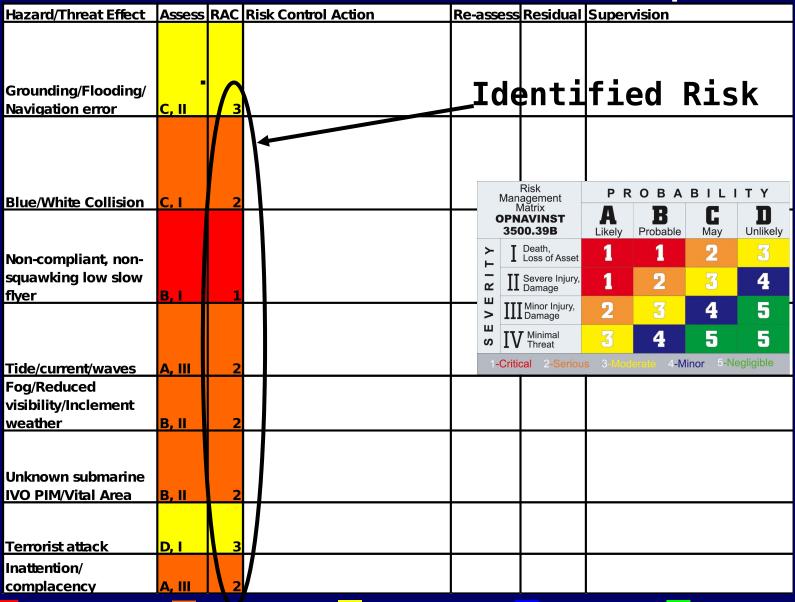
| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re- | asse | ess | Residual | Supe | vision | | |
|--|--------|-----|---------------------|-----|-------|----------------|---|------------------|---------------------|-------------------------|----------------------------|
| Grounding/Flooding/ Navigation error | | | | | | | | | | | |
| Blue/White Collision | | | | | 1 | Mana | Risk agement Jatrix | _ | ROBA | | |
| Non-compliant, non- squawking low slow flyer | | | | | | 350 I II | AVINST 00.39B Death, Loss of Asset Severe Injury, Damage | A Likely 1 | Probable 1 2 | G May 2 3 | Unlikely 4 |
| Tide/current/waves | | | | | S E V | ΙV | Minor Injury, Damage Minimal Threat Cal 2-Serious | 2 3 3 3 Mo | 4 derate 4-M | 4 5 linor 5-Ne | 5 5 egligible |
| Fog/Reduced visibility/Inclement weather | | | | | | | | | | | |
| Unknown submarine IVO PIM/Vital Area | | | | | | | | | | | |
| Terrorist attack | | | | | | | | | | | |
| Inattention/ complacency | | | | | | | | | | | |

| Hazard/Threat Effect | Accors | DAC | Pick Control Action | De | 2000 | <u></u> | Residual | Supon de | ion | | | |
|--|--------|-----|---------------------|-----|-------------|------------|---|----------------|--------------------|--------------------|------|---------------|
| nazard/ i nreat Effect | ASSESS | KAC | KISK CONTOL ACTION | re- | <u>asse</u> | 55 | kesiduai | Supervis | ion | | | - |
| Grounding/Flooding/ Navigation error | С, ІІ | 3 | | | | | | | | | | |
| Blue/White Collision | С, І | | | | N | 1ana | Risk agement latrix | PRO | | | | |
| | | | | | | PN/ 350 | AVINST 0.39B | A Likely Pr | Brobable | L May | Unli | ikely |
| Non-compliant, non- squawking low slow flyer | В, І | | | | ERITY | II | Death, Loss of Asset Severe Injury Damage | 1 | 2 | 3 |) 4 | 3 4 |
| Tide/current/waves | A, III | | | | S | IV | Minor Injury, Damage Minimal Threat 2-Serious | 3 3-Modera | 3 4 4 4 4 4 | 4 5 1inor 5- | | 5 5 ble |
| Fog/Reduced visibility/Inclement weather | B, II | | | | | | | | | | | |
| Unknown submarine IVO PIM/Vital Area | B, II | | | | | | | | | | | |
| Terrorist attack | D, I | | | | | | | | | | | |
| Inattention/ complacency | A, III | | | | | | | | | | | |

| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re- | asse | ess | Residual | Super | vision | | |
|--|--------|-----|---------------------|-----|------|----------------|---|------------------|---------------------|-------------------------|----------------|
| Grounding/Flooding/ Navigation error | C, II | 3 | | | | | | | | | |
| Blue/White Collision | | 2 | | | ı | Mana | Risk agement latrix | PR | е о в а | | |
| Non-compliant, non- squawking low slow flyer | В, І | 1 | | | | 350 I II | AVINST 00.39B Death, Loss of Asset Severe Injury, Damage | A Likely 1 | B Probable | G May 2 3 | Unlikely 4 |
| Tide/current/waves Fog/Reduced | A, III | 2 | | | SEV | IV | Minor Injury, Damage Minimal Threat Cal 2-Serious | 2 3 3 3 | 4 Jorato 4-M | 4 5 linor 5-Ne | 5 egligible |
| visibility/Inclement weather | B, II | 2 | | | | | | | | | |
| Unknown submarine IVO PIM/Vital Area | B, II | 2 | | | | | | | | | |
| Terrorist attack | D, I | 3 | | | | | | | | | |
| Inattention/ complacency | A, III | 2 | | | | | | | | | |

Risk Assessment Fransit traits

Deliberate ORM Example



= Moderate Risk

= Minor Risk

= Negligible Risk

= Serious Risk

= Critical Risk



Make Risk Decisions

Identify Risk Control

Systems / Engineering: • Material selection, Design

- Often not feasible

Supervisory / **Administrative:**

- Instructions, Policies, SOPs, ROEs
- Flight briefs, checklists
- Training, tactics
- Effective if properly used / enforced

Personal Protective Equipment:

- Eye & hearing protection
- Flight & survival Gear
- Least effective type of control does not reduce the probability of a mishap occurring, it only reduces the severity when a mishap does occur.

Determine

Control Effects

What's the impact on probability & severity

What's the risk control cost

How do they work together

Make Risk

Decisions

Determine residual risk

Make risk decisions at right level

Ensure benefits outweigh costs

Involve Operators / Subject Matter Experts

| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re-assess | Residual | Supervision |
|--|--------|-----|--|-----------|----------|-------------|
| Grounding/Flooding/ Navigation error | C, II | | SUWC: ensure ships' report RMD in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & communicating. | | | |
| Blue/White Collision | С, І | 2 | SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to BWC/SUWC on net. | | | |
| Non-compliant, non- squawking low slow flyer | В, І | 1 | ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for threat; IWC: monitor & report I&W to BWC/ADC on net. | | | |
| Tide/current/waves | A, III | 2 | SUWC: plan during favorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. | | | |
| Fog/Reduced visibility/Inclement weather | B, II | 2 | SUWC: ensure ships report restrictred visibility detail, use bell & horn, slow as needed. | | | |
| Unknown submarine IVO PIM/Vital Area | B, II | | ASWC: notify BWC/SUWC of known/unknown sub location; BWC: launch alert ASW if needed. | | | |
| Terrorist attack | D, I | 3 | BWC: PPRs; SUWC: man ships' 50-cals.; ADC: direct ATFP/SAR helo | | | |
| Inattention/ complacency | A, III | | SUWC: limit RMD watch duration; ALL: ensure rested & nourished | | | |

| | | | | | _ | _ | | | | |
|--|---------------------------------------|-----|------------------------------------|-----------|----------|-----------------------|-----------------|--------------|---------|-----------|
| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re-assess | Residual | Supervision | | | _ | |
| | | | SUWC: ensure ships' report RMD | | | | | | | |
| | | | in effect, fixes every 2 min. w/ | | | | | | | |
| | | | confidence & sources, OOD/Conn | | | | | | | |
| Grounding/Flooding/ | | | be proactive w/ identifying & | | | | | | | |
| Navigation error | C, II | 3 | communicating. | D, II | J. | | | | | |
| | | | SUWC: pass shipping info., ships | | | | | | | |
| | | | adhere to Rules of the Road, use | | | | | | | |
| | | | Furuno/ARPA, dec. speed in | | | | | | | |
| | | | strait, pass contacts to | | | | | | | |
| Blue/White Collision | С. І | 2 | BWC/SUWC on net. | D, II | | | | | | |
| Bide/Willac Collision | <u>C, I</u> | | | , | | Risk | PR | ОВАВ | 3 I L I | ΙΤΥ |
| | | | ADC: proactively identify & | | | Management Matrix | A | В | C | D |
| Name and the state of the state | | | resolve tracks; CFMCC: set | | | OPNAVINST 3500.39B | Likely | Probable | May | Unlikel |
| Non-compliant, non- | | | weapons posture & status for | | | ➤ T Death, | 1 | 1 | 9 | 7 |
| squawking low slow | | | threat; IWC: monitor & report | | | Loss of Asse | | | | |
| flyer | B, I | 1 | I&W to BWC/ADC on net. | C, II | | Severe Injur | ^{y,} 1 | 2 | 3+ | 4 |
| | | | SUWC: plan during favorable | | | ш TTT Minor Injury | | 3 | 1 | 5 |
| | | | conditions, pass to restrict | | | | 4 | -3 | - | 7 |
| | | | access to wx decks during high | | | ω IV Minimal Threat | 3 | 4 | 5 | 5 |
| Tide/current/waves | A, III | 2 | seas, update BWC on changes. | A, IV | | 1-Critical 2-Serie | ous 3-Mod | erate 4-Mino | or 5-Ne | egligible |
| Fog/Reduced | | | SUWC: ensure ships report | | | | | | | 0 0 |
| visibility/Inclement | | | restrictred visibility detail, use | | | | | | | |
| weather | B, II | 2 | bell & horn, slow as needed. | B, IV | | | | | | |
| | | | ASWC: notify BWC/SUWC of | | | | | | | |
| | | | known/unknown sub location; | | | | | | | |
| Unknown submarine | | | BWC: launch alert ASW if | | | | | | | |
| IVO PIM/Vital Area | B, II | 2 | needed. | C, III | | | | | | |
| | | | BWC: PPRs; SUWC: man ships' | | | | | | | |
| | | | 50-cals.; ADC: direct ATFP/SAR | | | | | | | |
| Terrorist attack | D, I | 3 | helo | D, III | | | | | | |
| Inattention/ | | | SUWC: limit RMD watch duration; | | | | | | | |
| complacency | A, III | 2 | • | B, III | | | | | | |
| Complacency | , , , , , , , , , , , , , , , , , , , | | The Cisal Cics and A rounding | ווו נכן | <u> </u> | <u> </u> | | | | |

= Critical Risk

= Serious Risk

= Moderate Risk

= Minor Risk

= Negligible Risk

| | | | | | | _ | | | |
|------------------------------|------------|-----|------------------------------------|------------------|----------|----------------------------|---------------|---------|--------------|
| <u> Hazard/Threat Effect</u> | Assess | RAC | Risk Control Action | Re-assess | Residual | Supervision | | | |
| | | | SUWC: ensure ships' report RMD | | | | | | |
| | | | in effect, fixes every 2 min. w/ | | | | | | |
| | | | confidence & sources, OOD/Conn | | | | | | |
| Grounding/Flooding/ | | | be proactive w/ identifying & | | | | | | |
| Navigation error | C, II | 3 | communicating. | D, II | 4 | | | | |
| • | | | | | | | | | |
| | | | SUWC: pass shipping info., ships | | | | | | |
| | | | adhere to Rules of the Road, use | | | | | | |
| | | | Furuno/ARPA, dec. speed in | | | | | | |
| Dive Multip Callinian | . . | ١ | strait, pass contacts to | L | | | | | |
| Blue/White Collision | C, I | | BWC/SUWC on net. | D, II | 4 | Risk | PROB | A B I | LITV |
| | | | ADC: proactively identify & | | | Management Matrix | | | |
| | | | resolve tracks; CFMCC: set | | | OPNAVINST 3500.39B | A B | | |
| Non-compliant, non- | | | weapons posture & status for | | | | | | , |
| squawking low slow | | | threat; IWC: monitor & report | | | Loss of Asset | 1 1 | 2 | 2 3 |
| flyer | B, I | 1 | I&W to BWC/ADC on net. | C, II | 3 | Severe Injury Damage | 1 2 | - 3 | 4 |
| | | | SUWC: plan during favorable | | | | | | |
| | | | conditions, pass to restrict | | | > III Minor Injury, Damage | 2 3 | 4 | 5 |
| | | | access to wx decks during high | | | ω IV Minimal Threat | 3 4 | | i 5 |
| Tide/current/waves | A, III | 2 | seas, update BWC on changes. | A, IV | 3 | 1-Critical 2-Serio | | | 5-Negligible |
| Fog/Reduced | | | SUWC: ensure ships report | | | 1-Critical 2-Serio | us 3-Moderate | 4-Minor | J-Negligible |
| visibility/Inclement | | | restrictred visibility detail, use | | | | | | |
| weather | B, II | 2 | | B, IV | 4 | | | | |
| | | | ASWC: notify BWC/SUWC of | | - | | | | |
| | | | known/unknown sub location; | | | | | | |
| Unknown submarine | | | BWC: launch alert ASW if | | | | | | |
| | B. II | ر ا | needed. | C, III | 4 | | | | |
| IVO I III VILLI AICA | ر ار ال | | BWC: PPRs; SUWC: man ships' | <u> </u> | | | | | |
| | | | 50-cals.; ADC: direct ATFP/SAR | | | | | | |
| Terrorist attack | D, I | 3 | helo | D, III | 5 | | | | |
| Inattention/ | | | SUWC: limit RMD watch duration; | _, | | | | | |
| complacency | A, III | | ALL: ensure rested & nourished | _B | , | | | | |
| complacency | A, III | | ALL: ensure rested & nourished | D, III | | | | | |

= Critical Risk

= Serious Risk

= Moderate Risk

= Minor Risk

= Negligible Risk

Deliberate ORM Example

| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re-asses | s Res | sidual | Sı | upervision | | |
|--|--------|-----|--|----------|-------|--------|-------|---|---|------------------------------------|
| Grounding/Flooding/ | C, II | | SUWC: ensure ships' report RMD in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & communicating. | | | | | | Risk | |
| Blue/White Collision | С, І | 2 | SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to BWC/SUWC on net. | D, II | | 4 | | | | |
| Non-compliant, non- squawking low slow flyer | В, І | 1 | ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for threat; IWC: monitor & report I&W to BWC/ADC on net. | C, II | | 3 | ΥTI | Risk Management Matrix PNAVINST 3500.39B I Death, Loss of Asset II Severe Injury, Damage | PROBAB Likely Probable 1 1 1 2 | L I T Y C D May Unlikely 2 3 4 |
| Tide/current/waves | A, III | 2 | SUWC: plan during favorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. | A, IV | | 3 | SEVER | III Damage III Minor Injury, Damage IV Minimal Threat | 2 3 3 4 | 4 5 5 5 |
| Fog/Reduced visibility/Inclement weather | B, II | 2 | SUWC: ensure ships report restrictred visibility detail, use bell & horn, slow as needed. | B, IV | | 4 | | Silical 2 central | O HEROGRAP - WILL | , viegiigiaie |
| Unknown submarine IVO PIM/Vital Area | B, II | 2 | ASWC: notify BWC/SUWC of known/unknown sub location; BWC: launch alert ASW if needed. | C, III | | 4 | | | | |
| Terrorist attack | D, I | 3 | BWC: PPRs; SUWC: man ships' 50-cals.; ADC: direct ATFP/SAR helo | D, III | | 5 | | | | |
| Inattention/ complacency | A, III | 2 | SUWC: limit RMD watch duration; ALL: ensure rested & nourished | B, III | | 3 | | | | |

= Critical Risk

= Serious Risk

= Moderate Risk

= Minor Risk

= Negligible Risk



Implement Controls





Supervise/Assess

Monitor
Are the
controls
working

Manage emerging changes (ABCD)

Identify new hazards

Review

Measure risk controls' effectiveness

Was mission successful

Identify root causes of conditions that led to failures Implement new controls

Save all documentation

Recommend actionable solutions to prevent other failures

Submit lessons learned

Involve Operators / Subject Matter Experts

Deliberate ORM Example

| Lie-e wil/Elevis - L E.C. | A | D.C.C | Diels Combrel Asi's | D | Daalda | C |
|--|--------|-------|--|-----------|----------|---|
| <u> Hazard/Threat Effect</u> | ASSESS | KAC | Risk Control Action | ke-assess | kesidual | Supervision |
| Grounding/Flooding/ Navigation error | C, II | 3 | SUWC: ensure ships' report RMD in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & communicating. | D, II | 4 | SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. |
| Blue/White Collision | С, І | 2 | SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to BWC/SUWC on net. | D, II | 4 | SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. |
| Non-compliant, non- squawking low slow flyer | В, І | 1 | ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for threat; IWC: monitor & report I&W to BWC/ADC on net. | C, II | 3 | ADC: monitor all tracks for possible low slow flyers; IWC: monitor I&W BWC: backup ADC/IWC. |
| Tide/current/waves | A, III | 2 | SUWC: plan during favorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. | A, IV | 3 | SUWC: monitor changing conditions; CSG OPS: call BWC if conditions become sig. different than forecast |
| Fog/Reduced visibility/Inclement weather | B, II | 2 | SUWC: ensure ships report restrictred visibility detail, use bell & horn, slow as needed. | B, IV | 4 | SUWC: report when vis<3NM & low visibility set, monitor speed. |
| Unknown submarine IVO PIM/Vital Area | B, II | 2 | ASWC: notify BWC/SUWC of known/unknown sub location; BWC: launch alert ASW if needed. | C, III | 4 | ASWC: monitor all subsurface contacts & report possible locations for unknown; BWC/SUWC: backup. |
| Terrorist attack | D, I | | BWC: PPRs; SUWC: man ships' 50-cals.; ADC: direct ATFP/SAR helo | D, III | 5 | SUWC/IWC: monitor I&W and use PPRs as required. BWC/ADC: backup. |
| Inattention/ complacency | A, III | | SUWC: limit RMD watch duration; ALL: ensure rested & nourished | B, III | 3 | ALL: backup watches & supervisors relieve if needed |



Time Critical ORM

An easy acronym can be used when time precludes In-Depth/Deliberate ORM:



Balance Resources to control risks

Communicate risks, intentions, & changes

Do (and debrief) enact controls & monitor

The simplicity of the acronym allows us to tie the traditional ORM Processes to more

| Hazard/Threat Effect | Vecoco | DAC | Risk Control Action | Po-accord | Pecidual | Supervision |
|----------------------|--------|-----|------------------------------------|-----------|----------|--------------------------------|
| nazaru/ mreat Enect | ASSESS | NAC | NISK COHUOI ACUOH | ne-assess | nesidudi | Supervision |
| | | | SUWC: ensure ships' report RMD | | | |
| | | | in effect, fixes every 2 min. w/ | | | SUWC: monitor all vessels & |
| | | | confidence & sources, OOD/Conn | | | report when any vessel |
| Grounding/Flooding/ | | | be proactive w/ identifying & | | | comes w/in 500 yds of shoal |
| Navigation error | C, II | 3 | communicating. | D, II | 4 | water; BWC: backup. |
| | | | SUWC: pass shipping info., ships | | | |
| | | | adhere to Rules of the Road, use | | | SUWC: monitor all vessels for |
| | | | Furuno/ARPA, dec. speed in | | | CBDR or min range inside |
| | | | strait, pass contacts to | | | vital area; BWC/ASWC: |
| Blue/White Collision | C, I | 2 | BWC/SUWC on net. | D, II | 4 | backup. |
| | | | ADC: proactively identify & | | | |
| | | | resolve tracks; CFMCC: set | | | ADC: monitor all tracks for |
| Non-compliant, non- | | | weapons posture & status for | | | possible low slow flyers; IWC: |
| causwiking low | | | | _ | | claus |
| flyer AS | se | SS | situation fo | or ha | azar | ds/risks |
| | | | Suvvc: pian during tavorable | | | journal changing |
| | | | conditions, pass to restrict | | | conditions; CSG OPS: call |
| | | | access to wx decks during high | | | BWC if conditions become |
| Tide/current/waves | A, III | 2 | seas, update BWC on changes. | A, IV | 3 | sig. different than forecast. |
| Fog/Reduced | | | SUWC: ensure ships report | | | SUWC: report when vis<3NM |
| visibility/Inclement | | | restrictred visibility detail, use | | | & low visibility set, monitor |
| | B, II | 2 | bell & horn, slow as needed. | B, IV | 4 | speed. |
| | | | ASWC notify BWC/SUWC of | | | ASWC: monitor all subsurface |
| | | | | | | contacts & report possible |
| Unknown submarine | | | | | | locations for unknown; |
| VO PIM/Vital Area | A, II | 1 | needea | C, III | 4 | BWC/SUWC: backup. |
| | | | BWC: PPRs; SUWC: man ships' | | | SUWC/IWC: monitor I&W and |
| | | | 50-cals.; ADC: direct ATFP/SAR | | | use PPRs as required. |
| Terrorist attack | D, I | 3 | helo | D, III | 5 | BWC/ADC: backup. |
| Inattention/ | | | SUWC: limit RMD watch duration; | | | ALL: backup watches & |
| complacency | A, III | 2 | | B, III | 3 | supervisors relieve if needed |
| | | | | | | |

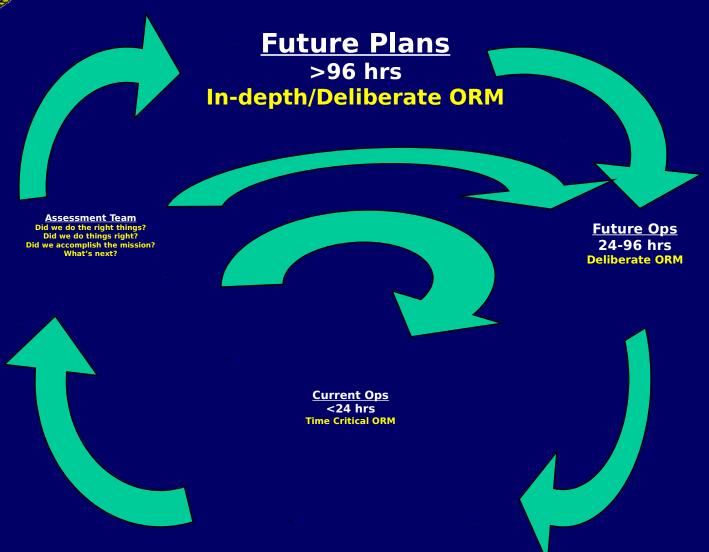
| Hazard/Threat Effect | A | DAC | Risk Control Action | Do poss | Docidus | Supervision |
|--------------------------|--------|-----|------------------------------------|-----------|----------|--------------------------------|
| nazard/ i nreat Effect | ASSESS | KAC | KISK CONTOL ACTION | ke-assess | kesiduai | Supervision |
| | | | SUWC: ensure ships' report RMD | | | |
| | | | in effect, fixes every 2 min. w/ | | | SUWC: monitor all vessels & |
| | | | confidence & sources, OOD/Conn | | | report when any vessel |
| Grounding/Flooding/ | | | be proactive w/identifying & | | | comes w/in 500 yds of shoal |
| Navigation error | C, II | 3 | communicating. | D, II | 4 | water; BWC: backup. |
| | | | SUWC: pass shipping info., ships | | | |
| | | | adhere to Rules of the Road, use | | | SUWC: monitor all vessels for |
| | | | Furuno/ARPA, dec. speed in | | | CBDR or min range inside |
| | | | strait, pass contacts to | | | vital area; BWC/ASWC: |
| Blue/White Collision | C. I | 2 | BWC/SUWC on net. | D, II | 4 | backup. |
| 2.3.5, 111112 5511151611 | -, - | | | | | 100 0 100 P. |
| | | | ADC: proactively identify & | | | ADC: monitor all tracks for |
| Non compliant mass | | | resolve tracks; CFMCC: set | | | |
| Non-compliant, non- | | | weapons posture & status for | | | possible low slow flyers; IWC: |
| squawking low | la- | | o rocource t | - | ·n+- | ol ricks backup |
| flyer B a | IIdí | | e resource t | | JIILL | |
| | | | Suvvc: pian duning tavorable | | | gerrer menner enurhging |
| | | | conditions, pass to restrict | | | conditions; CSG OPS: call |
| | | | access to wx decks during high | | | BWC if conditions become |
| | A, III | 2 | seas, update BWC on changes. | A, IV | 3 | sig. different than forecast. |
| Fog/Reduced | | | SUWC: ensure ships report | | | SUWC: report when vis<3NM |
| visibility/Inclement | | | restrictred visibility detail, use | | | & low visibility set, monitor |
| weather | B, II | 2 | bell & horn, slow as needed. | B, IV | 4 | speed. |
| | | | ASWC: notify BWC/SUWC of | | | ASWC: monitor all subsurface |
| | | | known/unknown sub location; | | | contacts & report possible |
| Unknown submarine | | | BWC: launch alert ASW if | | | locations for unknown; |
| IVO PIM/Vital Area | A, II | 1 | needed. | C, III | 4 | BWC/SUWC: backup. |
| | | | BWC: PPRs; SUWC: man ships' | | | SUWC/IWC: monitor I&W and |
| | | | 50-cals.; ADC: direct ATFP/SAR | | | use PPRs as required. |
| Terrorist attack | D, I | 3 | helo | D, III | 5 | BWC/ADC: backup. |
| Inattention/ | | | SUWC: limit RMD watch duration: | | | ALL: backup watches & |
| , | A, III | 2 | · · · · · · · · · · · · · · · · · | B, III | 2 | supervisors relieve if needed |
| complacency | A, III | | ALL. CIBUIC ICS COURS NEC | D, III | 3 | supervisors refleve if fleeded |

| SUWC: ensure ships' report RMD in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & 3 communicating. SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to Blue/White Collision Blue/White Collision C, I 2 BWC/SUWC on net. ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for squawking low flyer Communicate risks and intentions SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: ADC: monitor all tracks for possible low slow flyers; IWC: weapons posture & status for squawking low flyer Communicate risks and intentions SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: ADC: monitor all tracks for possible low slow flyers; IWC: onditions, pass to restrict access to wx decks during high seas, update BWC on changes. A, IV 3 sig. different than forecast. SUWC: report when vis<3NM | Hazard/Threat Effect | A | DAC | Diels Combrol Action | Do persone | Docidual | Currentision |
|--|------------------------|--------|-----|--|------------|----------|-------------------------------|
| in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & D, II 4 water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to Blue/White Collision C, I 2 BWC/SUWC on net. ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for squawking low flyer Communicate risks and intentions SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. ADC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. ADC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. ADC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. | Hazard/ i nreat Effect | Assess | KAC | RISK CONTOL ACTION | Re-assess | Residuai | Supervision |
| Navigation error C, II 3 communicating. SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to Blue/White Collision C, I 2 BWC/SUWC on net. ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for squawking low flyer Communicate risks and intentions SOWC: pian during ravorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. Fog/Reduced D, II 4 water; BWC: backup. SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: ADC: monitor all tracks for possible low slow flyers; IWC: squawking low flyers conditions, pass to restrict access to wx decks during high seas, update BWC on changes. SUWC: ensure ships report SUWC: report when vis<3NM | Cup, meling (Flooding) | | | in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn | | | report when any vessel |
| SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to Blue/White Collision C, I BWC/SUWC on net. ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for squawking low flyer Communicate risks and intentions SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: ADC: proactively identify & ADC: monitor all tracks for possible low slow flyers; IWC: squawking low flyer Communicate risks and intentions SUWC: prant during tavorable conditions, pass to restrict access to wx decks during high Tide/current/waves A, III 2 seas, update BWC on changes. SUWC: report when vis<3NM | | | | | | _ | · · |
| adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to Blue/White Collision C, I BWC/SUWC on net. ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for SuwC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. ADC: monitor all tracks for possible low slow flyers; IWC: squawking low flyer Communicate risks and intentions SuwC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. ADC: monitor all tracks for possible low slow flyers; IWC: conditions, pass to restrict access to wx decks during high Tide/current/waves A, III 2 seas, update BWC on changes. SuwC: report when vis<3NM | Navigation error | C, II | 3 | communicating. | D, II | 4 | water; BWC: backup. |
| Ron-compliant, non-squawking low flyer Communicate risks and intentions Sowc: pian during ravorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. Fog/Reduced ADC: monitor all tracks for possible low slow flyers; IWC: possible low sl | Blue/White Collision | С, І | 2 | adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to | D, II | 4 | vital area; BWC/ASWC: |
| Tide/current/waves Fog/Reduced Communicate risks and intentions Sowc: pian during ravorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. A, III 2 seas, update BWC on changes. SUWC: ensure ships report Communicate risks and intentions conditions; CSG OPS: call BWC if conditions become sig. different than forecast. SUWC: ensure ships report SUWC: report when vis≪3NM | | | | resolve tracks; CFMCC: set | | | |
| Sowc: pian during ravorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. Fog/Reduced Sowc: pian during ravorable conditions; CSG OPS: call BWC if conditions become A, IV 3 sig. different than forecast. SUWC: ensure ships report SUWC: pian during ravorable conditions; CSG OPS: call BWC if conditions become Sig. different than forecast. | squawking low | | | | | | _ kup |
| Sowc: pian during ravorable conditions, pass to restrict access to wx decks during high seas, update BWC on changes. Fog/Reduced Sowc: pian during ravorable conditions; CSG OPS: call BWC if conditions become A, IV 3 sig. different than forecast. SUWC: ensure ships report SUWC: ensure ships report | flyer CO | mr | nı | inicate risks | s an | din | tentions |
| conditions, pass to restrict access to wx decks during high Tide/current/waves A, III 2 seas, update BWC on changes. Fog/Reduced SUWC: ensure ships report Conditions; CSG OPS: call BWC if conditions become 3 sig. different than forecast. SUWC: ensure ships report SUWC: report when vis<3NM | | | | | - | | |
| access to wx decks during high Tide/current/waves A, III Substituting high access to wx decks during high seas, update BWC on changes. A, IV BWC if conditions become 3 sig. different than forecast. Substituting high access to wx decks during hi | | | | | | | |
| Tide/current/waves A, III 2 seas, update BWC on changes. A, IV 3 sig. different than forecast. Fog/Reduced SUWC: ensure ships report SUWC: report when vis<3NM | | | | | | | • |
| Fog/Reduced SUWC: ensure ships report SUWC: report when vis<3NM | Tide/current/waves | A. III | 2 | | A. IV | 3 | sia. different than forecast. |
| Je de la constante de la const | | - 4 | | | | | |
| rysphily/inclement restrictred visibility detail, use least a low visibility set. Monitor | visibility/Inclement | | | restrictred visibility detail, use | | | & low visibility set, monitor |
| weather B, II 2 bell & horn, slow as needed. B, IV 4 speed. | • | B. II | 2 | | B. IV | 4 | |
| | | | | • | | _ | ASWC: monitor all subsurface |
| known/unknown sub location; contacts & report possible | | | | _ | | | contacts & report possible |
| Unknown submarine BWC: launch alert ASW if locations for unknown; | Unknown submarine | | | • | | | locations for unknown; |
| IVO PIM/Vital Area A, II 1 needed. C, III 4 BWC/SUWC: backup. | IVO PIM/Vital Area | A, II | 1 | needed. | C, III | 4 | BWC/SUWC: backup. |
| | | | | BWC: PPRs: SUWC: man ships' | | | SUWC/IWC: monitor I&W and |
| 50-cals.; ADC: direct ATFP/SAR use PPRs as required. | | | | • | | | use PPRs as required. |
| Terrorist attack D, I 3 helo D, III 5 BWC/ADC: backup. | Terrorist attack | D, I | | | D, III | 5 | BWC/ADC: backup. |
| Inattention/ SUWC: limit RMD watch duration: ALL: backup watches & | Inattention/ | | | SUWC: limit RMD watch duration: | | | ALL: backup watches & |
| complacency A, III 2 ALL: ensure rested & nourished B, III 3 supervisors relieve if needed | complacency | A, III | 2 | | B, III | 3 | - |

| | | | | _ | | |
|---|--------|-----|--|-----------|----------|--|
| Hazard/Threat Effect | Assess | RAC | Risk Control Action | Re-assess | Residual | Supervision |
| Grounding/Flooding/ Navigation error | C, II | 3 | SUWC: ensure ships' report RMD in effect, fixes every 2 min. w/ confidence & sources, OOD/Conn be proactive w/ identifying & communicating. | D, II | 4 | SUWC: monitor all vessels & report when any vessel comes w/in 500 yds of shoal water; BWC: backup. |
| _ | С, І | | SUWC: pass shipping info., ships adhere to Rules of the Road, use Furuno/ARPA, dec. speed in strait, pass contacts to BWC/SUWC on net. | D, II | | SUWC: monitor all vessels for CBDR or min range inside vital area; BWC/ASWC: backup. |
| Non-compliant, non- squawking low | | | ADC: proactively identify & resolve tracks; CFMCC: set weapons posture & status for | | | ADC: monitor all tracks for possible low slow flyers; IWC: |
| flyer D (|) (a | m | <i>a Debriet)</i> e | nact | t co | ntrols and m |
| Tide/current/waves Fog/Reduced | A, III | 2 | conditions, pass to restrict access to wx decks during high seas, update BWC on changes. SUWC: ensure ships report | A, IV | 3 | conditions; CSG OPS: call BWC if conditions become sig. different than forecast. SUWC: report when vis<3NM |
| visibility/Inclement weather | B, II | 2 | restrictred visibility detail, use bell & horn, slow as needed. AS/VC: notify BWC/SUWC of | B, IV | 4 | & low visibility set, monitor speed. ASWC: monitor all subsurface |
| Unknown submarine IVO PIM/Vital Area | B, II | 2 | sub location; t ASW if | C, III | 4 | contacts & report possible locations for unknown; BWC/SUWC: backup. |
| Terrorist attack | D, I | 3 | BWC: PPRs; SUWC: man ships' 50-cals.; ADC: direct ATFP/SAR helo | D, III | 5 | SUWC/IWC: monitor I&W and use PPRs as required. BWC/ADC: backup. |
| Inattention/ complacency | A, III | 2 | SUWC: limit RMD watch duration; ALL: ensure rested & nourished | B, III | 3 | ALL: backup watches & supervisors relieve if needed |
| = Critical Risk | = | Ser | ious Risk = Moderate | Risk | = Min | or Risk = Negligible Ri |



ORM ISO BRP&E





Operational Risk

Management

Mission Accomplishm **Risk to Forces**

Review

- Common Language/Terms
- Three <u>Levels of ORM</u>
 - 1. In-depth
 - 2. Deliberate
 - 3. Time Critical
- Four principles of ORM
 - 1. Anticipate and manage risk by planning
 - 2. Make risk decisions at the appropriate level
 - 3. Accept risk when benefits outweigh costs
 - 4. Accept no unnecessary risks
- Five steps of ORM Four steps of Time Critical ORM
 - 1. Identify hazards hazards/risks
 - 2. Assess hazards control risks

- 1. Assess situation for
- 2. Balance resources to
- Make risk decisions 3. Communicate risks and



ORM Assessment

Who/When/Why/What/How

- ORM Assessors
 - >TTGL Mentors FST-GC/J
 - ► CSFTL Evaluators COMPTUEX/FBP
- Will be observing and assessing complex SOE events for their use of ORM principles and processes
- Looking for specific "Critical/Extreme" &
 "Serious/High" risk identified hazards/threats and
 "Moderate" residual risk hazards/threats unique to
 mission/circumstances
- Not just hazard ID in the planning/briefing... how well was the plan communicated, executed, debriefed/assessed, & lessons learned/best practices captured & disseminated
- Metrics included in overall Phylipus assessment



Summary

- Risk is 2 dimensional
- Risk has 2 types
 - Risk to Mission
 - Risk to Forces
- Assessment tool provides:
 - Standardized format for risk assessment
 - Satisfies "I AM" &/or "ABC"
 - Identifies Commander's critical risk to mission/forces & improves communication throughout COC
 - Supports GO/NO-GO criteria



More Information on

ORM

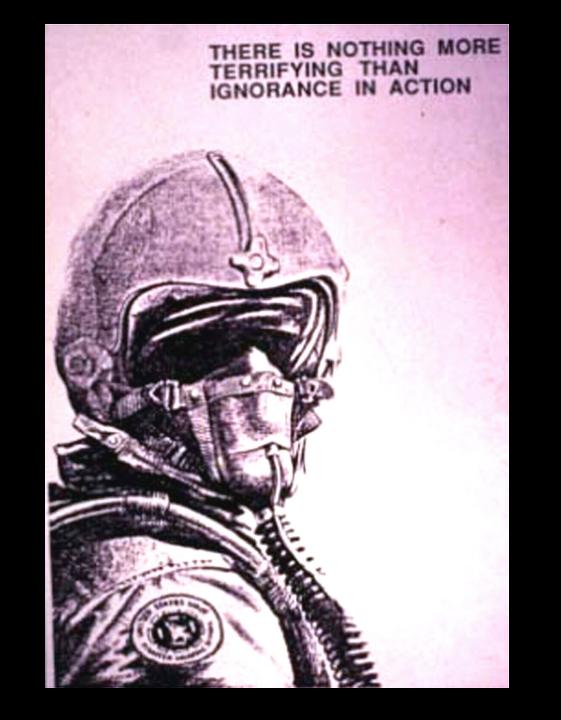
For more information on the Navy's ORM initiatives, strategy, assessment and sample model unit:

www.safetycenter.navy.mil/orm/orm_explanation .htm

For ORM Best Practice information:

http://205.0.132.75/training/ttglant

http://205.0.132.75/navy/ccg4





Risk Assessment Code

Matrix

Probability

Severity

| | Likely A | Probable B | May C | Unlikely D |
|--------------------------|-------------|---------------|----------|---------------|
| Catast- Rophic (I) | 1 | 1 | 2 | 3 |
| Critical (II) | 1 | 2 | 3 | 4 |
| Mod- erate (III) | 2 | 3 | 4 | 5 |
| Negli Gible (IV) | 3 | 4 | 5 | 5 |

1= CRITICAL

2= SERIOUS

3= MODERATE

4= MINOR

5= NEGLIGIBLE

Probability

- A: <u>Likely</u> occurs several times expected to occur during a specific mission or operation
- B: <u>Probable</u> occurs over a period of time. May occur during a specific mission or operation, but not often
- C: May/Seldom Occurs as an isolated incident.Remotely possible, but not likely to occur during a specific mission or operation
- D: <u>Unlikely</u> Occurrence not impossible but lay assume will not occur during a specific

Severity

<u>Catastrophic (I):</u> Loss of ability to accomplish the mission or mission failure. Unacceptable collateral damage (CD) May cause death, loss of facility/asset

<u>Critical (II)</u>: Significant degraded mission capability, unit readiness, or personal damage. Significant CD. May cause severe injury, illness, property damage

Moderate (III): Degraded mission capability or unit readiness. Minor damage to equipment/systems. May cause minor injury of personnel, illness, property damage